

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims

1. (Currently Amended) A self hardening, non-aqueous premixed composition of matter in combination comprising:

a non-toxic, non-aqueous water-miscible liquid;

a gelling agent;

a powdered calcium compound in the form of selectively sized powder particles, said particle size in the range of 1 µm to 50 µm, said particles comprising a calcium compound and selected from the group consisting of monocalcium phosphate monohydrate, monocalcium phosphate anhydrous, dicalcium phosphate anhydrous, dicalcium phosphate dehydrate, octacalcium phosphate, α -tricalcium phosphate, β -tricalcium phosphate, amorphous calcium phosphate, calcium deficient hydroxyapatite, non-stoichiometric hydroxyapatite, tetracalcium phosphate, CaSO₄, CaSO₄•0.5 H₂O, CaSO₄•2 H₂O, CaO, Ca(OH)₂, CaCO₃ and mixtures thereof; and

a carboxylic acid for accelerating hardening of said composition when said composition is exposed to water at a delivery site, said acid comprising an acid selected from the group consisting of glycolic, citric, tartaric, malonic, malic, and maleic acids and combinations thereof[[.]];

said composition being substantially an anhydrous paste and capable of forming a self hardening bone and tooth restoration material upon further combination with an aqueous material having a hardening time of less than about 35 minutes and a diametral tensile strength (DTS) greater than 2.7 MPa within 7 days after hardening.

2. (Cancelled)

3. (Previously Presented) The composition of Claim 1, wherein the gelling agent is selected from the group consisting of hydroxy methyl, cellulose, carboxymethyl cellulose, chitosan, collagen, gum, gelatin, and alginate, and combinations thereof.

4. (Cancelled)

5. (Cancelled)

6. (Previously Presented) The composition of Claim 1, wherein the liquid comprises glycerin.

7-25. (Canceled)

26. (Previously Presented) A composition according to Claim 1, said composition comprising a bone graft paste having a hardening time of no more than 35 minutes when exposed to an aqueous environment at a delivery site.

27. (Previously Presented) A composition according to Claim 1, said composition comprising a bone graft paste having a hardening time of no more than 20 minutes when exposed to an aqueous environment at a delivery site.

28. (Previously Presented) A composition according to Claim 1, said composition comprising a bone graft paste having a hardening time between about 5 to about 15 minutes when exposed to an aqueous environment at a delivery site.

29. (Previously Presented) A composition according to Claim 1, said miscible liquid being selected from the group consisting of propylene glycol, poly(propylene glycol), poly(ethylene glycol) and mixtures thereof.

30. (Cancelled)

31. (Currently Amended) The composition of claim 1 wherein the powder particle to liquid ratio[[n]] of constituents is in the range of about 1.5 to 3.0.

32. (Cancelled)

33. (Previously Presented) The composition of claim 1 wherein the powder particle size is in the range of about 1 μ m to 50 μ m, the hardening time upon mixing with

an aqueous source is less than about 35 minutes and the solid components comprises at least about 60% of the mass of the composition.

34. (Cancelled)

35. (Currently Amended) A self hardening, non-aqueous premixed composition of matter in combination comprising:

a non-toxic, non-aqueous water-miscible liquid selected from the group consisting of propylene glycol, poly(ethylene glycol), poly(ethylene glycol) and mixtures thereof;

a gelling agent selected from the group consisting of hydroxyl methyl cellulose, carboxymethyl cellulose, chitosan, collagen, gum, gelatin, alginate and combinations thereof;

a powdered calcium compound in the form of selectively sized powder particles said powder particles having a size in the range of about 1 μ m to 50 μ m and selected from the group consisting of monocalcium phosphate monohydrate, monocalcium phosphate anhydrous, dicalcium phosphate anhydrous, dicalcium phosphate dehydrate, octacalcium phosphate, α -tricalcium phosphate, β -tricalcium phosphate, amorphous calcium phosphate, calcium deficient hydroxyapatite, non-stoichiometric hydroxyapatite, tetracalcium phosphate, CaSO₄, CaSO₄ \cdot 0.5 H₂O, CaSO₄ \cdot 2 H₂O, CaO, Ca(OH)₂, CaCO₃ and mixtures thereof; and

a carboxylic acid for accelerating hardening of said composition when said composition is exposed to water at a delivery site, said acid selected from the group consisting of glycolic, citric, tartaric, malonic, malic, and maleic acids and combinations thereof,

said composition being substantially an anhydrous paste and capable of the hardening time upon mixing with an aqueous source being less than about 35 minutes and the solid components comprising at least about 60% of the mass of the paste composition.

36. (Cancelled)

37. (Cancelled)